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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/757,738	01/09/2001	William L. Bong	ARC 01.002	7735

7590

02/04/2003

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EXAMINER

KERNS, KEVIN P

ART UNIT	PAPER NUMBER
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1725

DATE MAILED: 02/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/757,738

Applicant(s)

BONG, WILLIAM L.

Examiner

Kevin P. Kerns

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 27 September 2002 is: a) ☐ approved b) ☒ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. Figures 1b-1e should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. The "Prior Art" label should be placed under each of Figures 1b-1e, not just under Figure 1a.

2. The drawings are objected to because Figure 9 contains the following errors: in step 490, "guide" should be changed to "Guide" for consistency with this term used multiple times throughout the flowchart. In step 494, "reslstant" should be changed to "resistant". In step 496, "Insolators" should be changed to "Insulators". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burden (US 3,243,568) in view of Wada et al. (US 4,208,564).

Burden discloses an electric welding process and apparatus for electrosag welding, in which an insulated consumable guide tube is comprised of elongated strips 41 and 42 (with front and back faces) and has plural longitudinal channels to receive welding wires (column 1, lines 11-14 and 53-72; column 2, lines 1-72; column 3, lines 1-25 and 54-71; column 4, lines 1-29; and Figures 1-10). The guide tubes would selectively be bare or given an insulating coating of slag forming material, and are selected in a plurality of arrangements in terms of dimensions and geometries, which are illustrated in Figures 5 and 10, and would furthermore be selected as representatives of routine choices by one of ordinary skill in the art depending on welding conditions (column 4, lines 25-28; and Figures 5-10). The triangular shape limitation of claim 6 is considered to be representative of an arbitrary choice for the shape of the electrode guide cross section shown in Figure 9. Burden does not disclose the plural insulator modules.

However, Wada et al. disclose a nozzle structure of electroslag welding machines, in which nozzle plate 117 contains a plurality of insulator modules 120 (of varying numbers and heights, as shown in Figure 5), for the purpose of preventing a short circuit in the weld gap between the nozzle plate 117 and the surfaces of the planks to be welded (abstract; column 1, lines 9-13 and 53-68; column 2, lines 1-9; column 3, lines 39-52; and Figures 1-5).

It would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the electric welding process and apparatus for electroslag welding, as disclosed by Burden, by adding the plurality of insulator modules, as taught by Wada et al., in order to prevent a short circuit in the weld gap between the nozzle plate 117 and the surfaces of the planks to be welded (Wada et al.; column 3, lines 39-50).

Response to Arguments

6. The examiner acknowledges the applicant's amendments (papers #7, 10, and 11), received by the USPTO on 9/27/02, 11/12/02, and 12/19/02, respectively. The objections to the specification, claim 9, and (most of) the drawings have been overcome by the amendments. New drawing objections are cited in paragraphs 1 and 2 above. The objection to the abstract (a minor issue relating to use of legal terminology) has been withdrawn by the examiner. An Information Disclosure Statement (paper #5), which was received by the USPTO on March 26, 2002 (after the office action of paper

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#4 was completed), has been considered and enclosed in this office action. Claims 1-20 remain under consideration in the application.

7. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

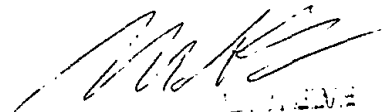
Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin P. Kerns whose telephone number is (703) 305-3472. The examiner can normally be reached on Monday-Friday from 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (703) 308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7718 for regular communications and (703) 305-6078 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

KPK
kpk
January 24, 2003


KEVIN P. KERNS
PATENT EXAMINER